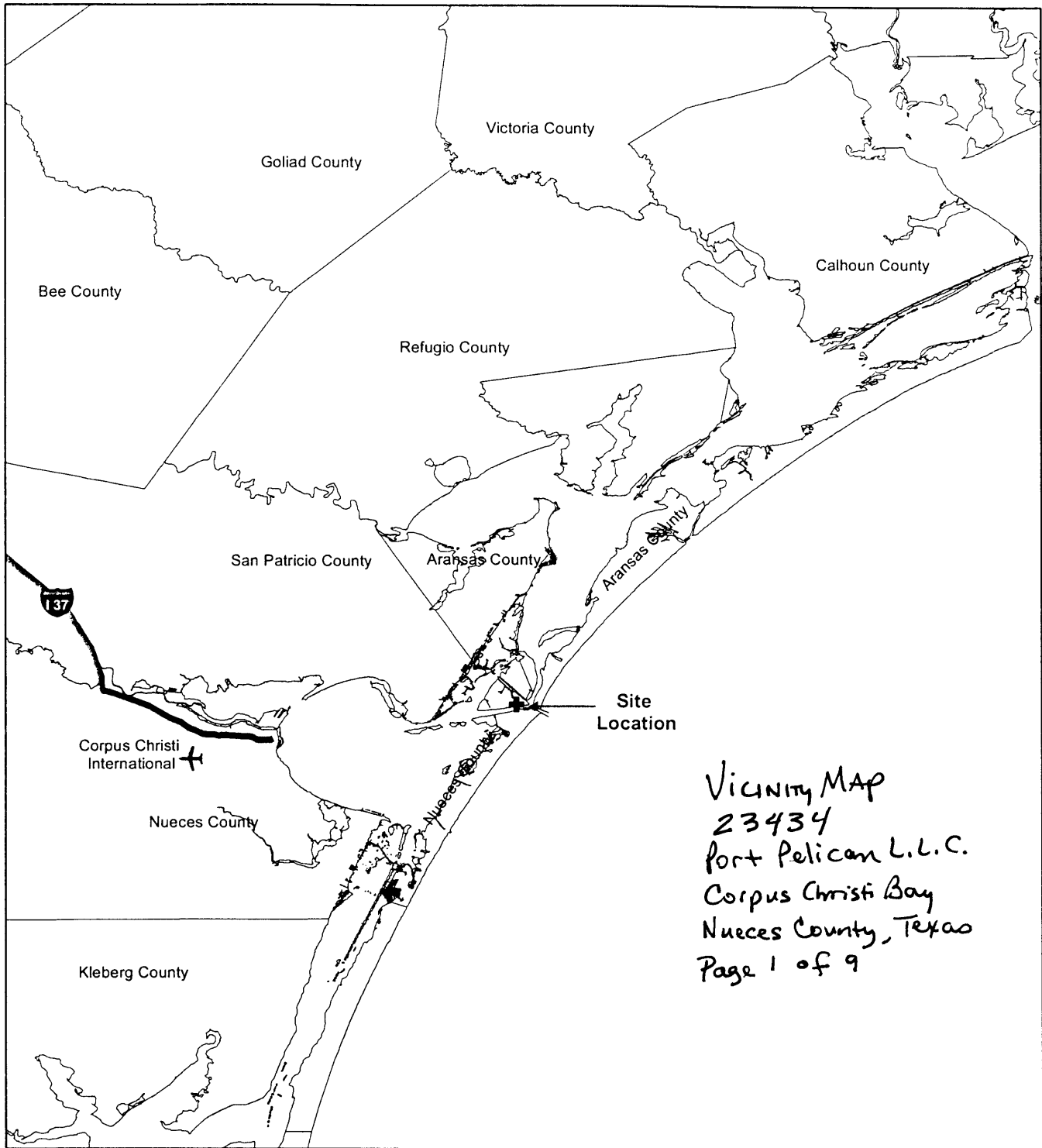


23434

S:\Secure\Pelican\2003\6000 Assigned Task Studies\6207 FabricationSite EAMcDermott...ellands\Figure 1.mxd



Vicinity Map
23434
Port Pelican L.L.C.
Corpus Christi Bay
Nueces County, Texas
Page 1 of 9

0 20 40 Miles



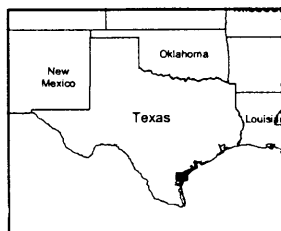
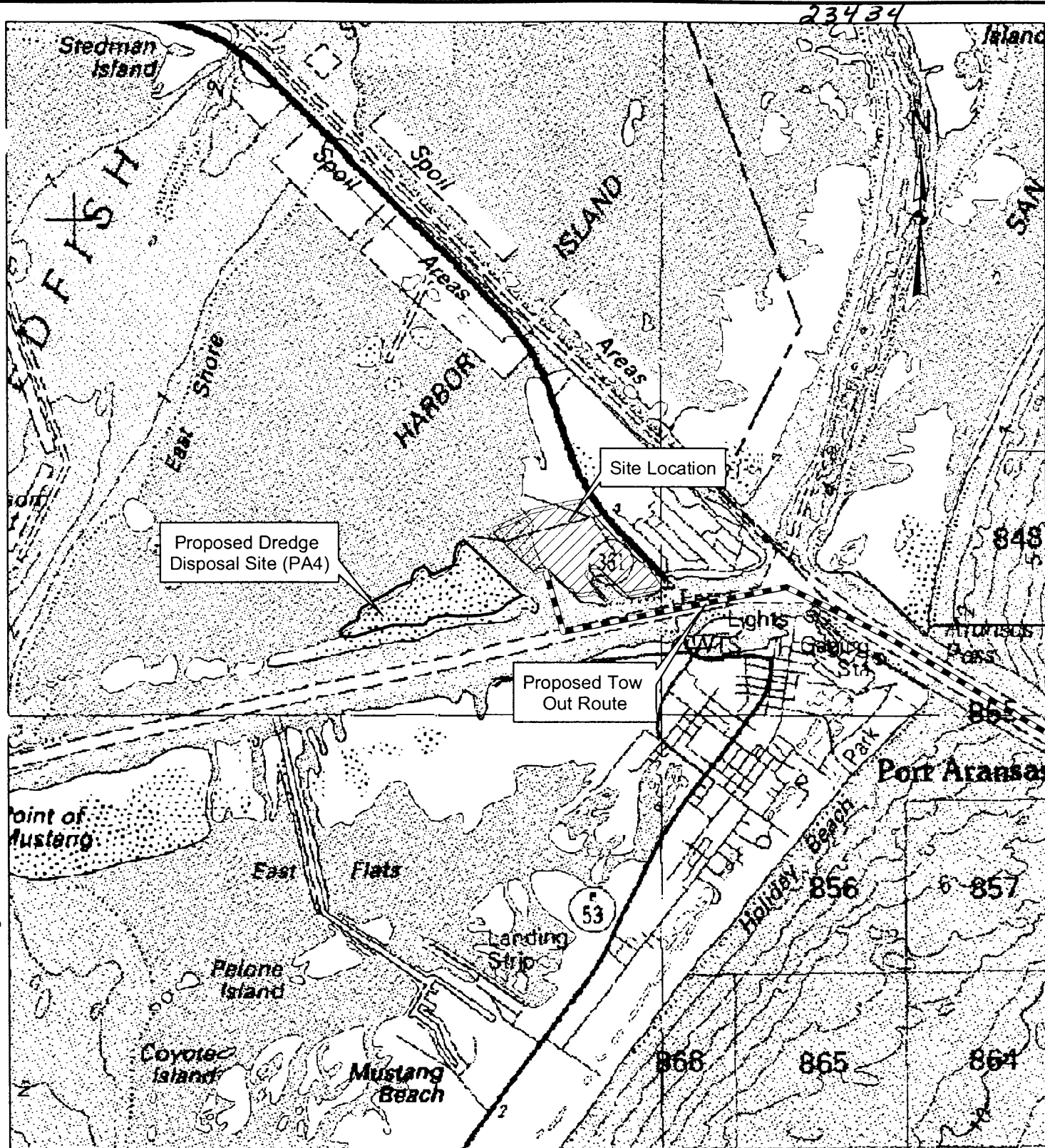
E N T R I X

Figure 1
Site Location Map
McDermott Site
Port Pelican, LLC
Nueces County, Texas

PROJ. NO.: 1076903

CK:

1



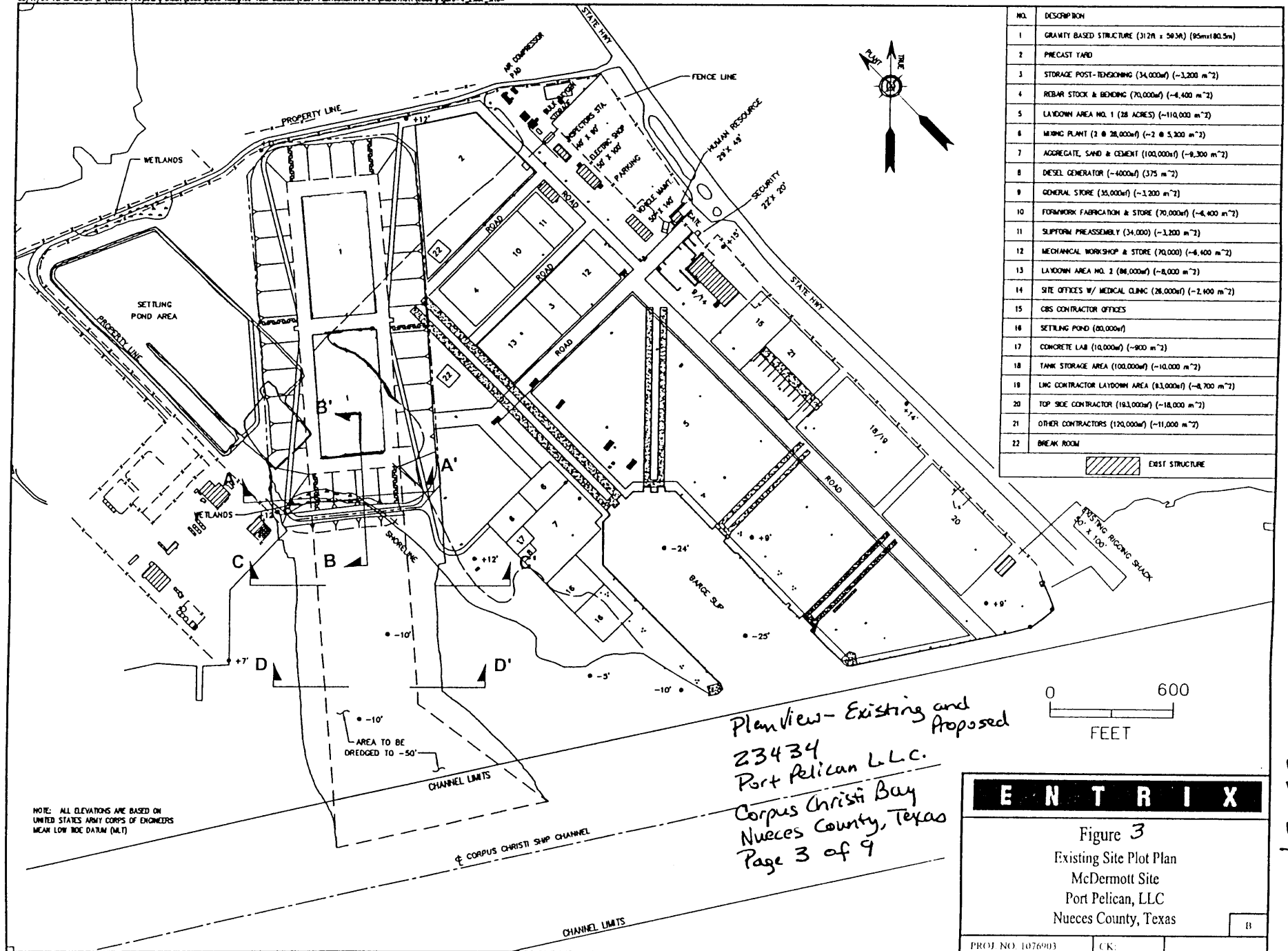
Key Map

0 0.5 1 2
Miles

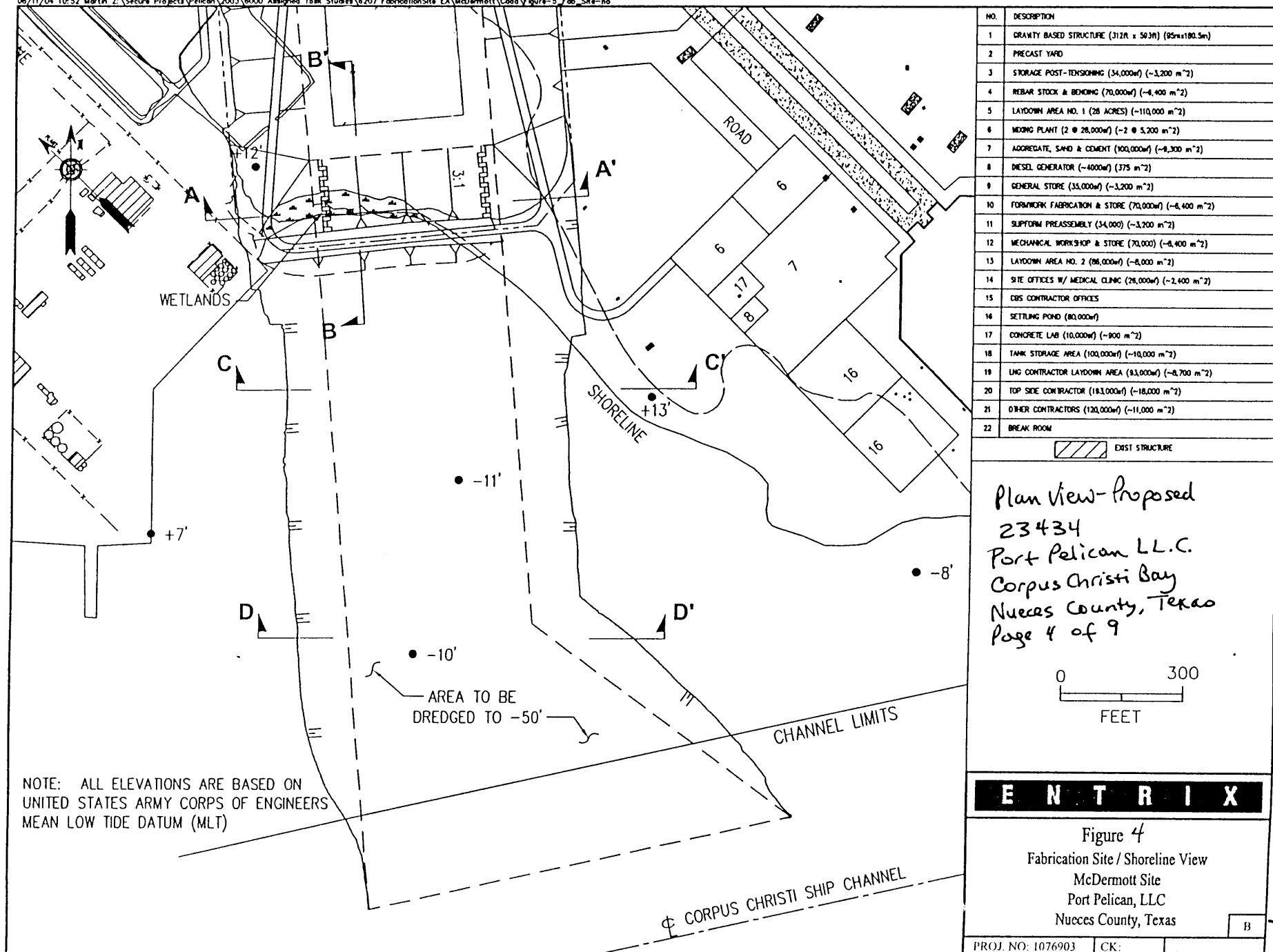
Location Map
23434
Port Pelican L.L.C.
Corpus Christi Bay
Nueces County, Texas
Page 2 of 9

E N T R I X

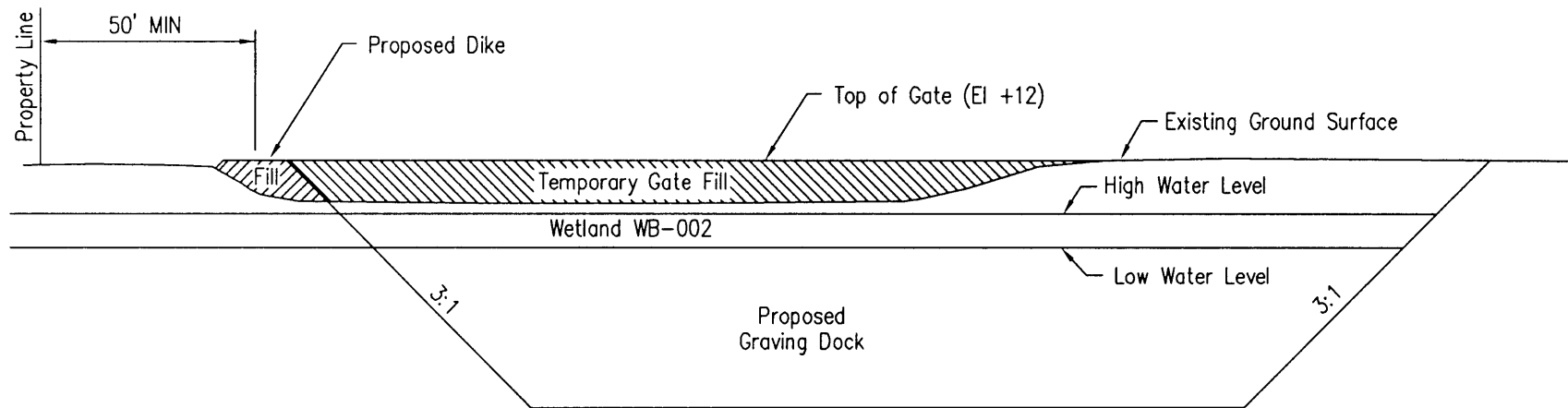
Figure 2.
Site Vicinity Map
McDermott Site
Port Pelican, LLC
Nueces County, Texas



23434



23434



Cross-Section A-A'

Cross section view - gate of graving dock

23434

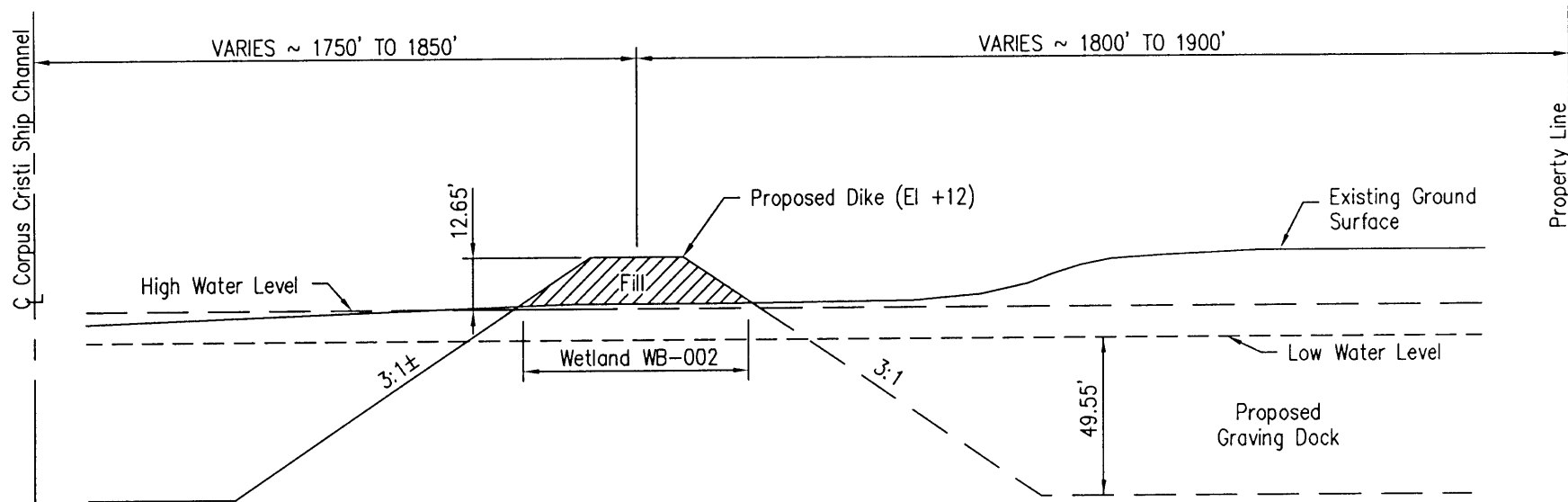
Port Pelican L.L.C.
Corpus Christi Bay
Nueces County, Texas
Page 5 of 9

NOTE: ALL ELEVATIONS ARE BASED ON
UNITED STATES ARMY CORPS OF ENGINEERS
MEAN LOW TIDE DATUM (MLT)

Not to Scale

E N T R I X	
Figure 5 Cross-Section View of Proposed Wetland Impacts McDermott Site Port Pelican, LLC Nueces County, Texas	
PROJ. NO: 1076903	CK: B

23434



Cross-Section B-B'

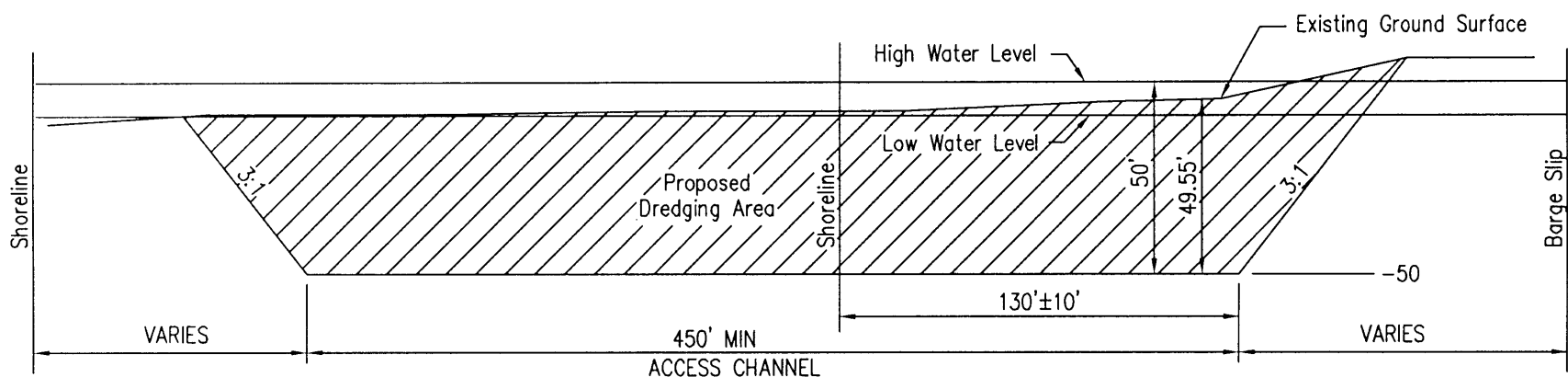
Cross section view - graving dock
 23434
 Port Pelican L.L.C.
 Corpus Christi Bay
 Nueces County, Texas
 Page 6 of 9

NOTE: ALL ELEVATIONS ARE BASED ON
 UNITED STATES ARMY CORPS OF ENGINEERS
 MEAN LOW TIDE DATUM (MLT)

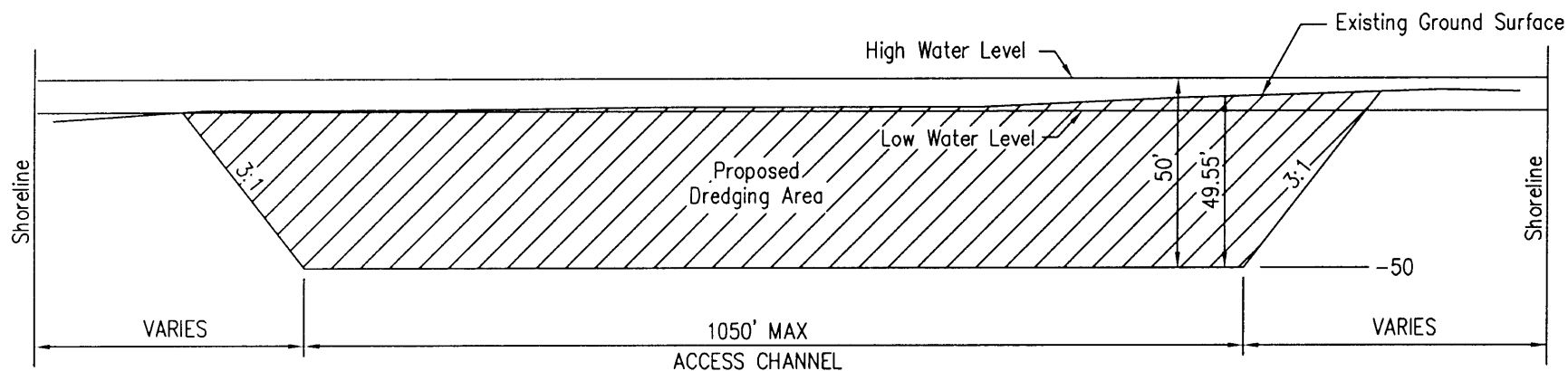
Not to Scale

E N T R I X	
Figure 6 Cross-Section View of Shoreline McDermott Site Port Pelican, LLC Nueces County, Texas	
PROJ. NO: 1076903	CK:

23434



Cross-Section C-C'



Cross-Section D-D'

Cross section view - access channel

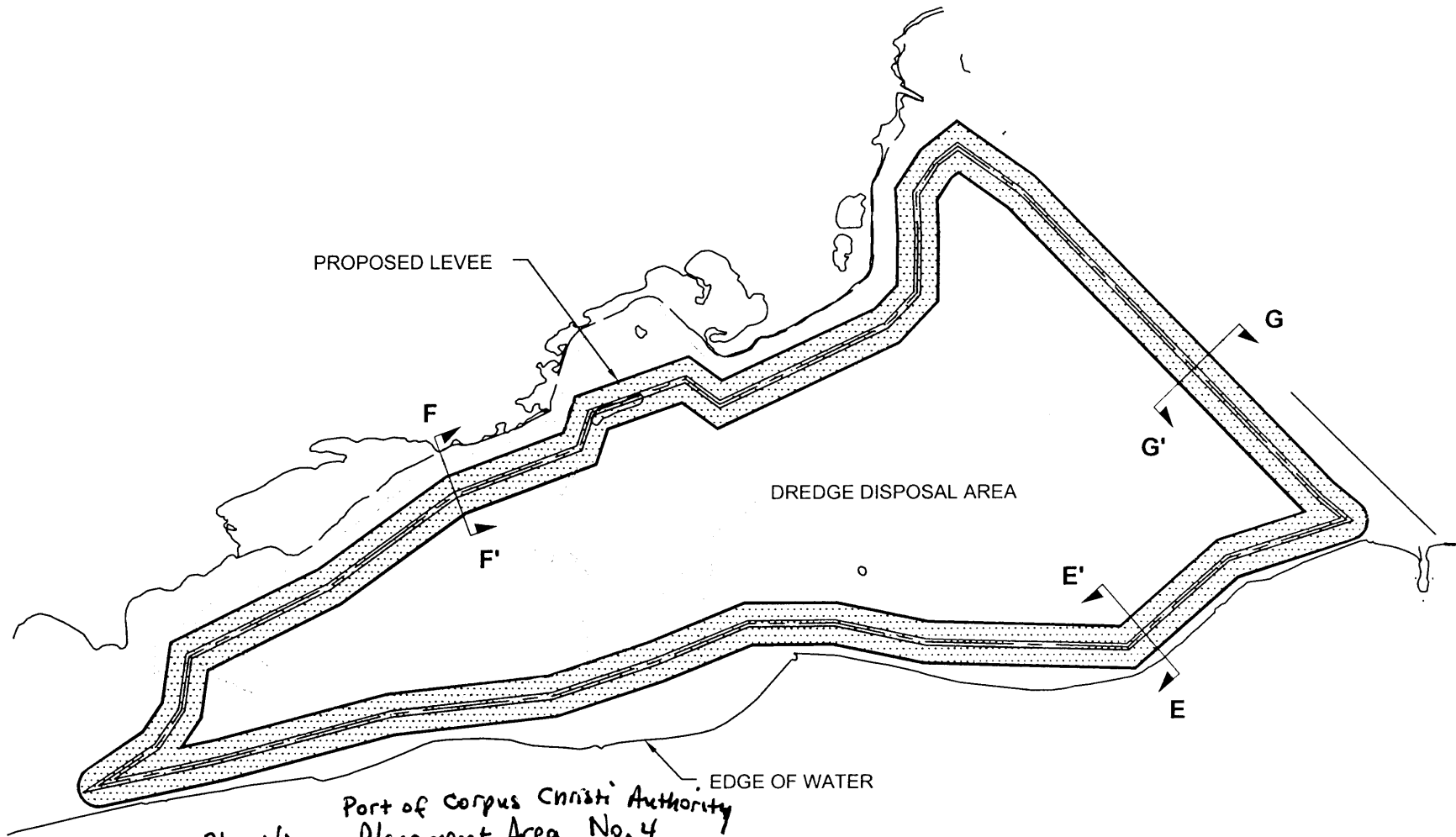
23434
Port Pelican LLC.
Corpus Christi Bay
Nueces County, Texas
Page 7 of 9

NOTE: ALL ELEVATIONS ARE BASED ON
UNITED STATES ARMY CORPS OF ENGINEERS
MEAN LOW TIDE DATUM (MLT)

Not to Scale

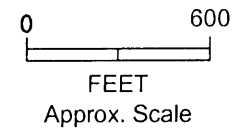
ENTRIX	
Figure 7	
Typical Cross-Section View for Mechanical / Hydraulic Dredging Area	
McDermott Site	
Port Pelican, LLC	
Nueces County, Texas	
PROJ. NO: 1076903	CK: B

23434



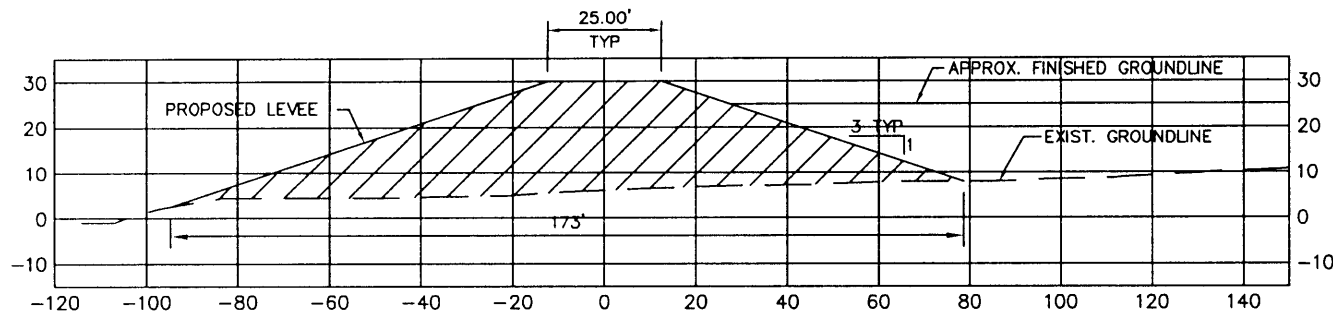
Port of Corpus Christi Authority
 Plan View- Placement Area No. 4
 23434
 Port Pelican L.L.C.
 Corpus Christi Bay
 Nueces County, Texas
 Page 8 of 9

C CORPUS CHRISTI CHANNEL

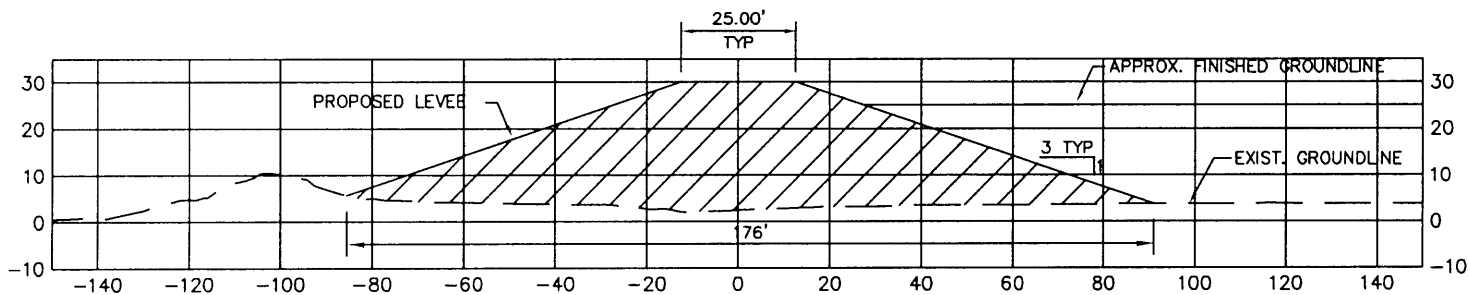


ENTRIX	
Figure 8 Typical Plan View for Dredge Material Placement Area McDermott Site Port Pelican, LLC Nueces County, Texas	
PROJ. NO: 1076903	CK:

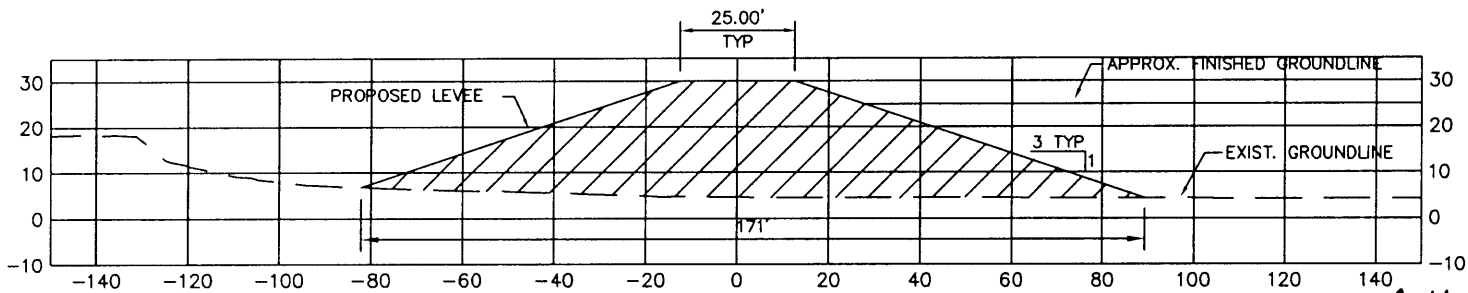
23434



SECTION E-E'



SECTION F-F'



SECTION G-G'

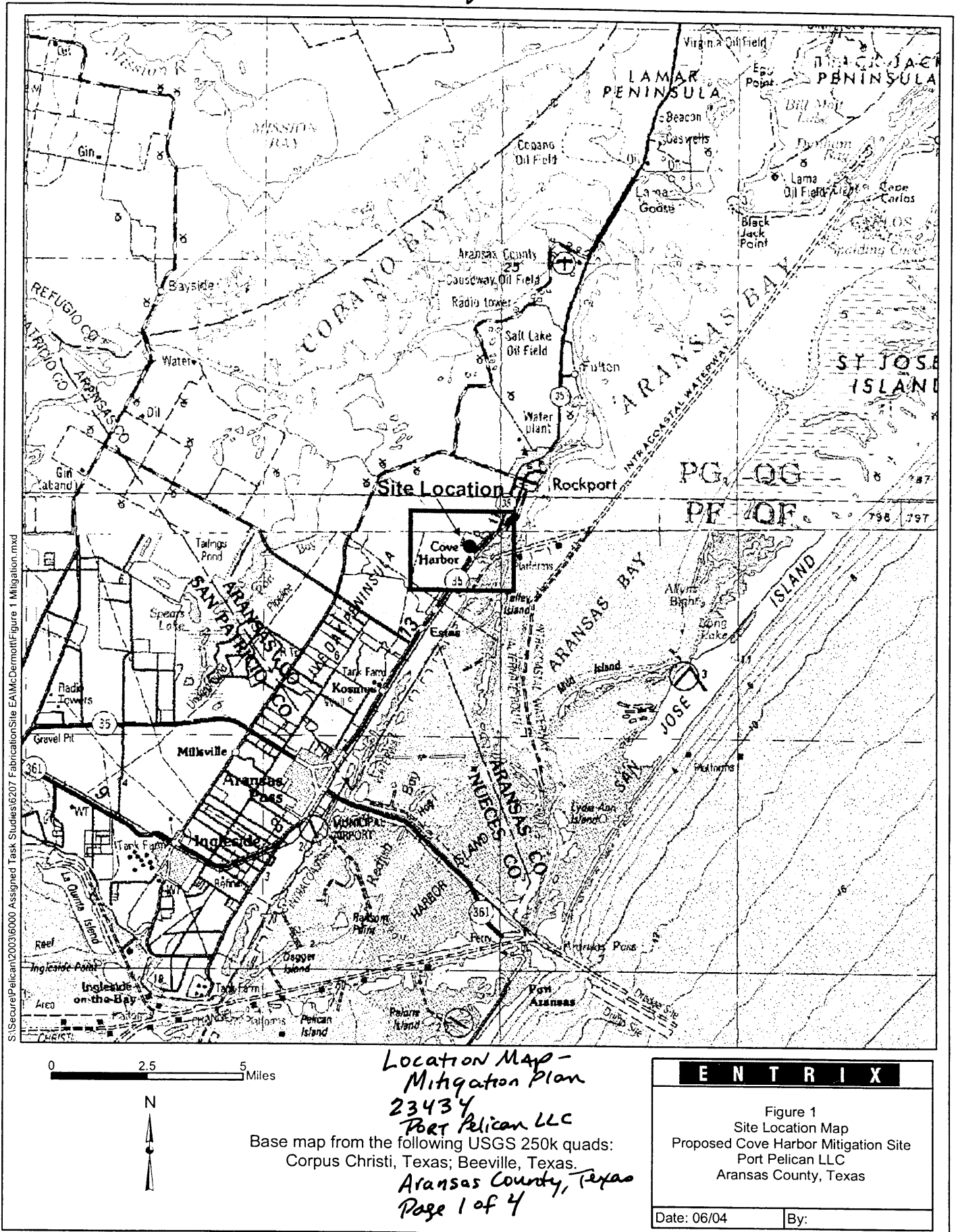
Port of Corpus Christi Authority
Placement Area No. 4

23434
Port Pelican LLC
Corpus Christi Bay
Nueces County, Texas
Page 9 of 9

NOTE: ALL ELEVATIONS ARE BASED ON
UNITED STATES ARMY CORPS OF ENGINEERS
MEAN LOW TIDE DATUM (MLT)




E N T R I X		
Figure 9 Typical Cross-Section View for Dredged Material Placement Area McDermott Site Port Pelican, LLC Nueces County, Texas		
PROJ. NO: 1076903	CK:	B

23434



S:\Secure\Pelican\2003\6000 Assigned Task Studies\6207 FabricationSite EAMcDermott\Figure 16.mxd

**Legend**

-  Wetland Fringe (2.88 acres)
-  Open Water (1.66 acres)
-  Potential Drainage Channel

0 50 100 Meters



Plan View -
Mitigation
23434
Port Pelican LLC
Aransas County,
Texas
Page 2 of 4

E N T R I X

Figure 2
Aerial Photograph Illustrating
Proposed Cove Harbor Mitigation Site
Port Pelican LLC
Aransas County, Texas

Date: 06/04

By:

Mitigation Project**Port Pelican McDermott Fabrication Site****Cove Harbor Coastal Wetland Construction and Enhancement****Project Overview (June 2004)****Rockport, Texas****Site Description**

Construction activities at the Port Pelican McDermott Fabrication Site will result in impacts to a variety of aquatic habitats. To adequately mitigate impacts to these habitats, which include Waters of the United States, shallow water habitat, and Essential Fish Habitat, Port Pelican, LLC proposes to create, enhance, and preserve approximately 10 acres of degraded and existing coastal marsh habitat. The proposed activities will result in the creation or enhancement of approximately 4.54 acres of degraded upland, open water, and wetland fringe coastal marsh habitat. The site (Cove Harbor) lies just west of the (Macport) Marina along Highway 35. It is approximately 1.5 miles south and west of the city of Rockport, Texas (Figure 1).

ENTRIX has prepared a conceptual drawing illustrating the proposed location of the mitigation site and a potential design for the mitigation project (Figure 2). This design and acreage is subject to change based upon agency recommendations and land acquisition issues.

Fabrication Site Impacts

The proposed mitigation project has been designed to compensate for the loss of the following habitat:

- 0.59 acres of jurisdictional wetland
 - 0.06 acres of emergent wetland (*Spartina alterniflora*)
 - 0.53 acres of upland coastal marsh wetland
- 1.3 acres of shallow water habitat (water depth less than 4 feet)

A total of 1.89 acres of habitat loss will require mitigation. Based upon our past experience with similar mitigation projects the agencies have agreed on mitigation ratios ranging from 1:1 to 3:1. For this conceptual mitigation plan we have chosen a 2.4:1 mitigation ratio.

Mitigation Plan
23434
Port Pelican LLC
Aransas County, Texas
Page 3 of 4

Proposed Activities

Port Pelican, LLC proposes to initially construct a series of drainage channels from existing open water into currently degraded areas. These drainage channels will create a series of open water fingers in the currently degraded areas. These fingers will have gentle sloping shorelines allowing for the creation of wetland fringe habitat. Though the exact number, configuration, and placements of the channels and fingers are yet to be finalized, this conceptual design layout was developed based on guidance from the COE, USFWS and TPW.

Based on our proposed design, this project would result in the creation of approximately 1.66 additional acres of open water and approximately 2.88 acres of wetland fringe. The wetland fringe created will be at an approximate water depth of 1.1 to 2.0 feet and the primary species would include smooth cordgrass (*Spartina alterniflora*). The proposed enhancements to the existing degraded habitats should be conducive for various marine life as well, including: shellfish, wading shorebirds, and various fish species.

In addition to this construction/creation effort, Port Pelican, LLC is attempting to purchase additional wetland acreage surrounding the mitigation site. Due to the high residential and commercial construction pressures in this area, purchase of this critical habitat for preservation is essential. Upland coastal marsh habitat will be included in this additional acreage purchased for the mitigation site. The upland coastal marsh habitat will be approximately 4-6 inches higher than the wetland fringe habitat and may include species such as: turtleweed (*Batis maritima*), woody glasswort (*Salicornia virginica*), dwarf glasswort (*S. bigelovii*), seaside oxeye (*Borrchia frutescens*), saltgrass (*Monanthochloe littoralis*), Carolina wolfberry (*Lycium carolinianum*), and inland saltgrass (*Distichlis spicata*).

Upon completion of the creation and acquisition, all land will be transferred to the Coastal Bend Land Trust in an effort to maintain this critical habitat and ensure its future along the Texas Coast.

Mitigation Plan
23434
Port Pelican LLC
Aransas County, Texas
Page 4 of 4